APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/920,138	07/31/2001	Zhen Liu	YOR920000760US2	5664

35526	7590	04/14/2005

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EXAMINER
CHEN, TSE W

ART UNIT	PAPER NUMBER
2116	

DATE MAILED: 04/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Interview Summary	**Application No.** 09/920,138	**Applicant(s)** LIU ET AL.
	Examiner Tse Chen	**Art Unit** 2116

All participants (applicant, applicant's representative, PTO personnel):

(1) _Tse Chen_.

(2) _Gerald Glanzman_.

(3) _____.

(4) _____.

Date of Interview: _06 April 2005_.

Type: a)☒ Telephonic   b)☐ Video Conference
       c)☐ Personal [copy given to: 1)☐ applicant   2)☐ applicant's representative]

Exhibit shown or demonstration conducted: d)☐ Yes   e)☐ No.
    If Yes, brief description: _____.

Claim(s) discussed: _4,6-9,13,15-18,22 and 24-27_.

Identification of prior art discussed: _____.

Agreement with respect to the claims f)☒ was reached.   g)☐ was not reached.   h)☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: _Applicant Attorney requested the amendments in the Attachment be entered as an Examiner's Amendment to expedite prosecution_.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

LYNNE H. BROWNE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

_____
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record
A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews
Paragraph (b)
In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.
All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

- The Form provides for recordation of the following information:
  - Application Number (Series Code and Serial Number)
  - Name of applicant
  - Name of examiner
  - Date of interview
  - Type of interview (telephonic, video-conference, or personal)
  - Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
  - An indication whether or not an exhibit was shown or a demonstration conducted
  - An identification of the specific prior art discussed
  - An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
  - The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:
1) A brief description of the nature of any exhibit shown or any demonstration conducted,
2) an identification of the claims discussed,
3) an identification of the specific prior art discussed,
4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
5) a brief identification of the general thrust of the principal arguments presented to the examiner,
   (The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
6) a general indication of any other pertinent matters discussed, and
7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

<u>ATTACHMENT TO INTERVIEW SUMMARY [04112005]</u>

Yee &
Associates, P.C.

4100 Alpha Road
Suite 1100   Main No. (972) 385-8777
Dallas, Texas 75244   Facsimile (972) 385-7766

Facsimile Cover Sheet

To: Commissioner for Patents
    Attention: Examiner Tse W. Chen
    Art Unit: 2116
	Facsimile No.: (571) 273-3672

From: Gerald H. Glanzman	No. of Pages Including Cover Sheet: 10

Dear Mr. Chen:

Following up on our telephone conversation yesterday, attached is a set of amended claims for **Serial No. 09/920,138** we have prepared to place the case in condition for allowance.

The amended claims include cancellation of all rejected claims except for dependent claims 7-9, 16-18 and 25-27 which have been made dependent on previously allowed claims 4, 13 and 22, respectively.

As a result of the Amendment, claims 4, 6-9, 13, 15-18, 22 and 24-27 should remain in the case and be allowed.

This will authorize you to amend the claims as indicated in the attached set of claims by Examiner's Amendment so that the case can be passed to issue.

I will appreciate your calling me at (972) 385-8777 to confirm your safe receipt of this fax and that the case is now in condition for allowance. Also call me if you have any questions.

Thank you very much for your assistance in this matter.

Docket No. YOR920000760US2
DATE: Thursday, April 07, 2005

<table>
<tr>
<td>Please contact us at (972) 385-8777 if you do not receive all pages indicated above or experience any difficulty in receiving this facsimile.</td>
<td><i>This Facsimile is intended only for the use of the addressee and, if the addressee is a client or their agent, contains privileged and confidential information. If you are not the intended recipient of this facsimile, you have received this facsimile inadvertently and in error. Any review, dissemination, distribution, or copying is strictly prohibited. If you received this facsimile in error, please notify us by telephone and return the facsimile to us immediately.</i></td>
</tr>
</table>

PROPOSED AMENDED CLAIMS FOR

SERIAL NO. 09/920,138

The following listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1.   (Canceled)

2.   (Canceled)

3.   (Canceled)

4.   (Previously presented) A method for removing the effect of clock skew between data processing systems, comprising:

making delay measurements between two data processing systems connected by a network;

forming a set of data points, wherein each data point in the set of data points comprises a time and a delay measurement for the respective time;

finding a convex hull of the set of data points, wherein the convex hull is bounded by a number of line segments;

selecting a one of the line segments that optimizes an objective function;

extrapolating the one of the line segments to obtain an affine function; and

removing the effect of clock skew between the two data processing systems as characterized by the affine function, wherein the one of the line segments is selected so that the sum of the vertical distances between each of the set of data points and a line containing the one of the line segments will be minimized, and further wherein selecting the one of the line segments includes:

calculating an arithmetic mean of x-coordinates of all of the set of data points; and

selecting a one of the line segments that contains a point whose x-coordinate is equal to the arithmetic mean.

5.   (Canceled)

6.   (Previously presented) A method for removing the effect of clock skew between data processing systems, comprising:

making delay measurements between two data processing systems connected by a network;

forming a set of data points, wherein each data point in the set of data points comprises a time and a delay measurement for the respective time;

finding a convex hull of the set of data points, wherein the convex hull is bounded by a number of line segments;

selecting a one of the line segments that optimizes an objective function;

extrapolating the one of the line segments to obtain an affine function; and

removing the effect of clock skew between the two data processing systems as characterized by the affine function, wherein the one of the line segments is selected so

that the area between a plot of a piecewise-linear function containing the set of data points and a line containing the one of the line segments will be minimized, and further wherein selecting the one of the line segments includes:

calculating an arithmetic mean of an x-coordinate of a first data point and an x-coordinate of a second data point, wherein the x-coordinate of the first data point is the lowest of any data point in the set of data points, and wherein the x-coordinate of the second data point is the greatest of any data point in the set of data points; and

selecting a one of the line segments that contains a point whose x-coordinate is equal to the arithmetic mean.

7.   (Currently amended) The method of claim [[1]] 4, wherein the x-coordinate of each data point in the set of data points represents a time measurement.

8.   (Currently amended) The method of claim [[1]] 4 , wherein the y-coordinate of each data point in the set of data points represents a delay measurement.

9.   (Original) The method of claim 8, wherein the delay measurement is a communication delay between two data processing systems connected by a network.

10.   (Canceled)

11.   (Canceled)

12.   (Canceled)

13.   (Previously presented) A computer program product, in a computer-readable medium, for removing the effect of clock skew between data processing systems, comprising instructions for:

making a delay measurement between two data processing systems connected by a network;

forming a set of data points, wherein each data point in the set of data points comprises a time and a delay measurement for the respective time;

finding a convex hull of the set of data points, wherein the convex hull is bounded by a number of line segments;

selecting a one of the line segments that optimizes an objective function;

extrapolating the one of the line segments to obtain an affine function; and

removing the effect of clock skew between the two data processing systems as characterized by the affine function, wherein the one of the line segments is selected so that the sum of the vertical distances between each of the set of data points and a line containing the one of the line segments will be minimized, and further wherein the instructions for selecting the one of the line segments include instructions for:

calculating an arithmetic mean of x-coordinates of all of the set of data points; and

selecting a one of the line segments that contains a point whose x-coordinate is equal to the arithmetic mean.

14.   (Canceled)

15.   (Previously presented) A computer program product, in a computer-readable medium, for removing the effect of clock skew between data processing systems, comprising instructions for:

making a delay measurement between two data processing systems connected by a network;

forming a set of data points, wherein each data point in the set of data points comprises a time and a delay measurement for the respective time;

finding a convex hull of the set of data points, wherein the convex hull is bounded by a number of line segments;

selecting a one of the line segments that optimizes an objective function;

extrapolating the one of the line segments to obtain an affine function; and

removing the effect of clock skew between the two data processing systems as characterized by the affine function, wherein the one of the line segments is selected so that the area between a plot of a piecewise-linear function containing the set of data points and a line containing the one of the line segments will be minimized, and further wherein the instructions for selecting the one of the line segments include instructions for:

calculating an arithmetic mean of an x-coordinate of a first data point and an x-coordinate of a second data point, wherein the x-coordinate of the first data point is the lowest of any data point in the set of data points, and wherein the x-coordinate of the second data point is the greatest of any data point in the set of data points; and

selecting a one of the line segments that contains a point whose x-coordinate is equal to the arithmetic mean.

16.   (Currently amended) The computer program product of claim [[10]] 13, wherein the x-coordinate of each data point in the set of data points represents a time measurement.

17.   (Currently amended) The computer program product of claim [[10]] 13, wherein
the y-coordinate of each data point in the set of data points represents a delay
measurement.

18.   (Original) The computer program product of claim 17, wherein the delay
measurement is a communication delay between two data processing systems connected
by a network.

19.   (Canceled)

20.   (Canceled)

21.   (Canceled)

22.   (Previously presented) A data processing system for removing the effect of clock
skew between data processing systems, comprising:

a bus system;

a processing unit connected to the bus system, wherein the processing unit contains at
least one processor;

a memory connected to the bus system; and

a set of instructions,

wherein the processing unit executes the set of instructions to perform the acts of:

making a delay measurement between two data processing systems connected by a
network;

Page 6 of 9
Liu et al. – 09/920,138

forming a set of data points, wherein each data point in the set of data points comprises a time and a delay measurement for the respective time;

finding a convex hull of the set of data points, wherein the convex hull is bounded by a number of line segments;

selecting a one of the line segments that optimizes an objective function; and

extrapolating the one of the line segments to obtain an affine function; and

removing the effect of clock skew between the two data processing systems as characterized by the affine function, wherein the one of the line segments is selected so that the sum of the vertical distances between each of the set of data points and a line containing the one of the line segments will be minimized, and further wherein the act of selecting the one of the line segments includes:

calculating an arithmetic mean of x-coordinates of all of the set of data points; and

selecting a one of the line segments that contains a point whose x-coordinate is equal to the arithmetic mean.

23.   (Canceled)

24.   (Previously presented) A data processing system for removing the effect of clock skew between data processing systems, comprising: .

a bus system;

a processing unit connected to the bus system, wherein the processing unit contains at least one processor;

a memory connected to the bus system; and

a set of instructions,

wherein the processing unit executes the set of instructions to perform the acts of:

making a delay measurement between two data processing systems connected by a network;

forming a set of data points, wherein each data point in the set of data points comprises a time and a delay measurement for the respective time;

finding a convex hull of the set of data points, wherein the convex hull is bounded by a number of line segments;

selecting a one of the line segments that optimizes an objective function; and

extrapolating the one of the line segments to obtain an affine function; and

removing the effect of clock skew between the two data processing systems as characterized by the affine function, wherein the one of the line segments is selected so that the area between a plot of a piecewise-linear function containing the set of data points and a line containing the one of the line segments will be minimized, and further wherein the act of selecting the one of the line segments includes:

calculating an arithmetic mean of an x-coordinate of a first data point and an x-coordinate of a second data point, wherein the x-coordinate of the first data point is the lowest of any data point in the set of data points, and wherein the x-coordinate of the second data point is the greatest of any data point in the set of data points; and

Page 8 of 9
Liu et al. — 09/920,138

selecting a one of the line segments that contains a point whose x-coordinate is equal to the arithmetic mean.

25.   (Currently amended) The data processing system of claim [[19]] 22, wherein the x-coordinate of each data point in the set of data points represents a time measurement.

26.   (Currently amended) The data processing system of claim [[19]] 22, wherein the y-coordinate of each data point in the set of data points represents a delay measurement.

27.   (Original) The data processing system of claim 26, wherein the delay measurement is a communication delay between two data processing systems connected by a network.

28.   (Canceled)

29.   (Canceled)